

ABSTRACT

[0067] A Craniofacial Fracture Reduction Assembly is disclosed, the assembly providing a surgeon with precise control over the surgical reduction of fractured craniofacial bone pieces. The fracture reduction assembly may include a reduction platform, and a threaded fragment manipulator. The reduction platform has top and bottom surfaces and at least one receiving hole in communication therewith. The receiving hole is configured to accept a fragment manipulator. The fragment manipulator may comprise an elongated member having a bone engaging portion for engaging a targeted fractured bone piece and a center threaded portion. Working in combination with a reduction nut, the fragment manipulator provides accurate control over the fragment reduction vector. In use, the bone engaging end of the fragment manipulator is inserted through the receiving hole in the reduction platform and then into the fracture region where it engages the targeted fractured bone piece. Thereafter a reduction nut is threaded onto the non-engaged end of the fragment manipulator until the nose of the nut contacts the reduction platform. Continued rotation of the nut causes the fragment manipulator to be drawn up through the reduction nut, pulling the bone fragment toward the reduction platform, thereby reducing the fracture. Also disclosed is an adjustable support assembly, which may be used to position the reduction platform in a wide variety of locations above the fracture region.